

½ "Clr.

TYPICAL BOND BEAM DETAIL AT CONTROL JOINT (For bond beams above the upper Finished Grade Line)

2-#5 bond

beam reinf.

(Typ.)

DETAIL A

8" deep bond beam block.

2 - #5 cont. in 8" deep

bond beam at top of wall.

₽ Wall

Optional Splice

ı<del>.</del> □

bar

48

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bar

48

<u>0</u>

Standard

90° hook.

Footing

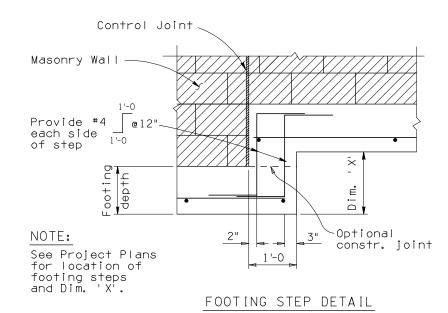
Vinyl Cruciform Control

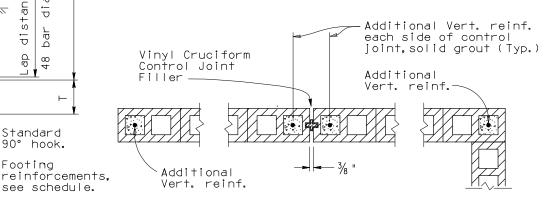
Joint Filler

ELEVATION

see schedule.

DETAIL A





WALL DETAILS AT JOINTS AND ENDS

Control Joint

Max. spacing 24'-0

NOTE:

Wall End

See DWG. SD 8.02 (2 of 2) "TYPICAL SECTIONS THROUGH VERTICAL WALL REINFORCEMENT" for similar details not shown here.

## GENERAL NOTES:

Construction - Arizona Department of Transportation Standard Specifications for Road and Bridge Construction, Current Edition.

ACI 531. Specifications for Concrete Masonry Construction.

Design - AASHTO Standard Specifications for Highway Bridges, 17th Edition, 2002. Working Stress Design Method.

All concrete shall be Class 'S' unless noted otherwise.

Reinforcing Steel shall conform to ASTM Specification A615. All reinforcinc shall be furnished as Grade 60.

Stresses: Grade 60 Reinforcing Steel .... fs = 24,000 psi.

Special Inspection is required for all masonry wall construction.

Wind Velocity 80 MPH, Exposure C. Wind pressure 18.0 psf for height segment under 12'-0 Wind pressure 25.0 psf for height segment over 12'-0

Vertical Cells containing reinforcements shall be grouted solid full height.

Bond Beam with reinforcements shall be grouted solid full length.

Control joints shall occur at intervals not to exceed 24'-0.

See Project plans for wall layout, top of footing and finished grade elevations, footing step and wall joint locations. Height of wall may vary ± 2 inches.

For wall treatment and type of block see Project Plans.

Location of Construction Joint shall match the location of a control joint.

Compact backfill for footing and wall base minimum 95 percent of ASTM D698 maximum dry density.

Do not scale dimensions from drawings.

Pay Item includes all labor and materials for excavation, backfill, concrete footing and masonry wall with reinforcements.

Pay Item is measured as wall height (H) times length of wall. Footing is included in the wall pay item.

Item No. 9140137 SOUND BARRIER WALL (MASONRY) Measure: Square Foot

(GENERAL NOTES Continued Next Sheet)

WALL SCHEDULE							
	Wall Thick D**	Ftg. Depth T	Ftg. Width W	Reinforcing***			Min. Req.
Wall Height H				Wall	Footing		Allowable Soil Bearing
				Vert.	Bottom Trans.	Bottom Long.	Capacity (psf)
0'-0 to 3'-11	8"	10"	1'-6	#4@24"	#4@24"	2-#4	1,000
4'-0 to 5'-11	8"	10"	2'-0	#4@24"	#4@24"	2-#4	1,300
6'-0 to 7'-11	8"	10"	2'-6	#5@24"	#5@24"	4 - # 4	1,500
8'-0 to 9'-11	8"	10"	3'-0	#5@24"	#5@16"	4 - # 4	1,600
10'-0 to 11'-11	8"	1 '-0	3'-6	#5@16"	#5@16"	4-#5	1,700
12'-0 to 13'-11	12"	1 '-3	4'-6	#5@16"	#5@16"	6-#5	1,900
14'-0 to 15'-11	12"	1 '-6	5'-0	#6@16"	#6@16"	6-#5	2,000
16'-0 to 17'-11	12"	1 '-6	5'-6	#8@16"	#6@16"	6-#5	2,100

Wall Corner

IGN APPROVEI	rafi U. Haran	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION BRIDGE GROUP STRUCTURE DETAIL					
	istribution Fran A. Nehme	SOUND BARRIER WALL (MASONARY)					
TE	PROJECT NO.	FA NO.	SD 8.02 (1 of 2)				
ATION			SHEET NO.				

\*\* Nominal Dimension, \*\*\* Additional Reinf. required at Control Joints. G:\9760\data\Word\BridgeBulletins\sd802-1\_0207.dgn